

CLAIMS

What is claimed is:

1. A sensing apparatus comprising
 - a cable having a first end and a second end;
 - a connector residing at the first end of the cable; and
 - a sensor module residing at the second end of the cable.
2. A sensing apparatus according to Claim 1 , wherein the cable, the connector and the sensor module are unidiametrical.
3. A sensing apparatus according to Claim 1, wherein the cable comprises
 - a core;
 - a conductive element wrapped around the core; and
 - a first tubing covering the core and the conductive element;
4. A sensing apparatus according to Claim 3, wherein the core is polyester.
5. A sensing apparatus according to Claim 3, wherein the conductive element is a ribbon cable.
6. A sensing apparatus according to Claim 3, wherein the conductive element includes wires.
7. A sensing apparatus according to Claim 6, wherein the wires are welded to the connector and the sensor module.
8. A sensing apparatus according to Claim 6, wherein the wires are crimped to the connector.

9. A sensing apparatus according to Claim 6, wherein the wires are platinum.
10. A sensing apparatus according to Claim 3, wherein the first tubing is radio opaque.
11. A sensing apparatus according to Claim 3, further comprising a second tubing covering the first tubing.
12. A sensing apparatus according to Claim 11, wherein a window is cut into the second tubing.
13. A sensing apparatus according to Claim 1, wherein the sensor module comprises a first end and a second end.
14. A sensing apparatus according to Claim 13, wherein beads encapsulate the first end and the second end.
15. A sensing apparatus according to Claim 14, wherein the sensor module further comprises a spacing element.
16. A sensing apparatus according to Claim 15, wherein a height of the spacing element is greater than a height of the beads.
17. A sensing apparatus according to Claim 1, further comprising an enzyme within the sensor module.
18. A sensing apparatus according to Claim 17, wherein the enzyme is glucose oxidase.
19. A sensing apparatus according to Claim 17, wherein the enzyme is human serum albumin.

20. A sensing apparatus according to Claim 17, wherein the enzyme is a protein matrix.
21. A method of making a sensing apparatus comprising
- obtaining a connector;
 - obtaining a cable;
 - obtaining a sensor module;
 - attaching a first end of the cable to the connector; and
 - attaching a second end of the cable to the sensor module.
22. A method according to Claim 21, further comprising
- forming beads over ends of the sensor module;
 - inserting a spacing element between the beads;
 - covering the sensor module with a tubing of the cable;
 - cutting a window in the tubing of the cable; and
 - inserting an enzyme in the sensor module.
23. A method according to Claim 22, wherein the enzyme is hydrated.